

Title (en)

Auto-ranging thermistor-based temperature detection system

Title (de)

Temperaturdetektionssystem auf Grundlage eines selbstumschaltenden Thermistors

Title (fr)

Système de détection de température à base d'un thermistor à mesure automatique

Publication

EP 2056083 A2 20090506 (EN)

Application

EP 08167903 A 20081030

Priority

- US 144207 P 20071031
- US 25724608 A 20081023

Abstract (en)

An apparatus for detecting temperature includes an adjustable current source operable for supplying a current, a thermistor coupled to said adjustable current source, and an auto-range hysteresis logic coupled to said thermistor and said adjustable current source operable for outputting a signal to control said adjustable current source by sensing a voltage across said thermistor. A method for detecting temperature is also disclosed.

IPC 8 full level

G01K 7/24 (2006.01)

CPC (source: EP US)

G01K 3/005 (2013.01 - EP US); **G01K 7/16** (2013.01 - EP US); **G01K 7/24** (2013.01 - EP US)

Citation (applicant)

- US 2004105488 A1 20040603 - FELDER MATTHEW D [US]
- DE 19640383 C1 19980409 - SIEMENS AG [DE]
- EP 1813924 A1 20070801 - LG ELECTRONICS INC [KR]

Citation (examination)

- EP 1813924 A1 20070801 - LG ELECTRONICS INC [KR]
- DE 19640383 C1 19980409 - SIEMENS AG [DE]
- JP H05291897 A 19931105 - TOSHIBA CORP, et al
- JP S61192116 A 19860826 - NIPPON ELECTRIC IC MICROCOMPUT

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FR3032279A1; US8542057B2; US10025340B2; WO2016124333A1; WO2010136310A1; US9645015B2; US10197453B2; US10612981B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2056083 A2 20090506; EP 2056083 A3 20110420; CN 101430231 A 20090513; CN 101430231 B 20101229; JP 2009109498 A 20090521; JP 4829286 B2 20111207; TW 200925573 A 20090616; TW I382162 B 20130111; US 2009110028 A1 20090430; US 8118487 B2 20120221

DOCDB simple family (application)

EP 08167903 A 20081030; CN 200810173533 A 20081031; JP 2008279960 A 20081030; TW 97141715 A 20081030; US 25724608 A 20081023